

## Amendments to the Claims

Claim 1-61 (Cancelled).

Claim 62 (Currently amended): A process for purifying ~~halogenation~~ reaction products comprising:

providing ~~halogenation~~ a reaction products product comprising HF and at least one C-3 chlorofluorinated compounds and HF compound;

~~adjusting the temperature of the halogenation reaction products to a temperature sufficient to separate the reaction products~~ phase separating the reaction product into ~~separate~~ a top liquid phase comprising HF and a bottom phases, including a top phase containing HF and a bottom phase containing liquid phase comprising a the at least one C-3 chlorofluorinated compound; and

~~removing the top phase to obtain essentially pure HF or removing the bottom phase to obtain essentially pure~~ physically separating the top and bottom phases to form a solution comprising the at least one C-3 chlorofluorinated compound.

Claim 63 (Currently amended): The process of claim 62 wherein the C-3 chlorofluorinated ~~compounds have~~ compound comprises a C-3 chlorofluorinated compound having at least six fluorine atoms.

Claim 64 (Currently amended): The process of claim 62 wherein the phase separating comprises altering the reaction product temperature is to a temperature of from about -30°C to about -10°C.

Claim 65 (Original): The process of claim 64 wherein the temperature is about -20°C.

Claim 66 (Currently amended): A process for separating ~~C-3~~ chlorofluorinated compounds having at least six fluorine atoms from ~~C-3~~ chlorofluorinated compounds having less than six fluorine atoms comprising:

providing a first solution comprising both first and second C-3 chlorofluorinated compounds, the first compound having at least six fluorine atoms and the second compound ~~C-3~~ chlorofluorinated compounds having less than six fluorine atoms;

~~contacting~~ preparing a mixture comprising the first solution with and water to form a water mixture therewith;

~~adjusting the temperature of the water mixture to a sufficient temperature to~~  
~~separate~~ phase separating the water mixture into at least three phases, including an upper phases; a gas phase containing ~~C-3~~ chlorofluorinated compounds having at least six fluorine atoms comprising the first compound, a top primarily aqueous an upper liquid phase comprising the water, and a lower most liquid phase containing ~~C-3~~ chlorofluorinated compounds having less than six fluorine atoms comprising the second compound; and

removing the upper gas phase from the upper and lower liquid phases to obtain therefrom essentially pure ~~C-3~~ chlorofluorinated compounds having at least six fluorine atoms form a second solution comprising the first compound.

Claim 67 (Currently amended): The process of claim 66 wherein the ~~C-3-chlorofluorinated compounds having at least six fluorine atoms comprise~~ first compound comprises CFC-216aa  $C_3F_6Cl_2$  and the second compound comprises  $C_3F_5Cl_3$ .

Claim 68 (Currently amended): The process of claim 66 wherein the phase separating comprises altering the first solution reaction temperature to a temperature is of from about 25°C to about 75°C.

Claim 69 (Original): The process of claim 68 wherein the temperature is about 50°C.

Claim 70 (Currently amended): The process of claim 66 wherein the ~~water includes~~ mixture further comprises a basic compound.

Claim 71 (Original): The process of claim 70 wherein the basic compound comprises KOH.

Claims 72-88 (Cancelled).